Execution of Hadoop Program

**export HADOOP\_CLASSPATH=$(hadoop classpath)**

To check if it is correctly set, type echo

**echo $HADOOP\_CLASSPATH**

Step 1: Write MapReduce Program which includes Mapper class, Reducer and Combiner

Step 2: Compile the code and store the class files into a new folder

**javac -classpath ${HADOOP\_CLASSPATH} -d /usr/local/hadoop\_programs/word\_count/WordCount\_classes WordCount.java**

**Step 3:** create a Jar file for the above .class files

**jar -cvf FirstMapReduce.jar -C WordCount\_classes/ .**

Step 4: Create a folder for executing program

**hadoop fs -mkdir /WordCount**

Step 5: Create a subfolder to store the input file

**hadoop fs -mkdir /WordCount/Input**

Step 6: Copy the input file from local storage to Hadoop filesystem

**hadoop fs -put /usr/local/hadoop\_programs/word\_count/Input\_data/sample.txt /WordCount/Input/sample.txt**

**hadoop fs -chmod 777 /WordCount/Input/sample.txt**

Step 7: Execute the Jar file when inturn creates an Output folder with output file in it.

**hadoop jar /usr/local/hadoop\_programs/word\_count/FirstMapReduce.jar WordCount /WordCount/Input /WordCount/Output**

Step 8: Open part-r-00000 file which contains your output of mapReduce program

**hadoop fs -cat /WordCount/Output/part-r-00000**

Alternatively one can open localhost by using

<https://localhost:9870> and navigate to utilities from then to folder created for program execution, then to output directory created by hadoop filesystem and then to the specific file “part-r-00000”, download it and view for the result.